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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/517,589	03/03/2000	Masami Hatori	Q56793	5455
75	90 11/06/2002			
Sughrue Mion Zinn Macpeak & Seas PLLC 2100 Pennsylvania Avenue N W Washington, DC 20037			EXAMINER	
			RODRIGUEZ, ARMANDO	
			ART UNIT	PAPER NUMBER
·			2828	
			DATE MAILED: 11/06/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

. , ,							
•		Application No.	Applicant(s)				
Office Action Summary		09/517,589	HATORI ET AL.				
		Examiner	Art Unit	-			
		Armando Rodriguez	2828				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover shee	t with the correspondence add	iress			
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, ma within the statutory minimum of will apply and will expire SIX (6) in cause the application to becom	y a reply be timely filed thirty (30) days will be considered timely MONTHS from the mailing date of this core e ABANDONED (35 U.S.C. § 133).	mmunication.			
1)[Responsive to communication(s) filed on	·					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Thi	is action is non-final.					
3)	Since this application is in condition for alloward closed in accordance with the practice under a			e merits is			
•	on of Claims						
•	Claim(s) <u>1-28</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
· · · · ·	Claim(s) is/are allowed.		0 0				
· ·	Claim(s) <u>1-28</u> is/are rejected.		fauls				
	Claim(s) is/are objected to.		Paul IP				
-	Claim(s) are subject to restriction and/or on Papers	r election requirement.	SUPERVISORY PATENT E TECHNOLOGY CENTER	XAMINEH { 2800			
9)[The specification is objected to by the Examine	r.					
10)	The drawing(s) filed on is/are: a)□ accep	oted or b) objected to b	by the Examiner.				
	Applicant may not request that any objection to the						
11)[The proposed drawing correction filed on		_l disapproved by the Examine	er.			
If approved, corrected drawings are required in reply to this Office action.							
	The oath or declaration is objected to by the Ex	amıner.					
	ınder 35 U.S.C. §§ 119 and 120						
·	Acknowledgment is made of a claim for foreign	priority under 35 U.S.	C. § 119(a)-(d) or (f).				
a)[☑ All b) ☐ Some * c) ☐ None of:						
	1.⊠ Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No.						
* 5	Copies of the certified copies of the prior application from the International Bulice the attached detailed Office action for a list.	reau (PCT Rule 17.2(a)).	stage			
14) 🗌 A	Acknowledgment is made of a claim for domestic	c priority under 35 U.S	.C. § 119(e) (to a provisional	application).			
)	• •					
Attachmen	-						
2) D Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) 3	5) Notice	ew Summary (PTO-413) Paper No(e of Informal Patent Application (PTC				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2,5,8 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 2,5,14 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: the transmission type wavelength selecting optical element, the claim language does not recite where this optical element is located within the module.

Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: no structure has been recited within the claim language to obtain modulation of the laser beam.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1-3, 5-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Sonoda (JP10254001).

In the figures Sonoda illustrates a semiconductor laser, a wavelength conversion waveguide and a filter. The waveguide and the laser form an external resonant cavity by having a high reflective coating, which reflects the laser light and outputs second harmonic light. The narrow band pass filter will provide wavelength selection. See the figures for the different embodiments, which have similar structural arrangements to the claimed embodiments of applicant's invention and provide similar output beams.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4,25-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sonoda (JP10254001) in view of Nagai et al (PN 5,617,435).

Regarding claims 4,25,27,28.

In the figures Sonoda illustrates a semiconductor laser, a wavelength conversion waveguide and a filter. The waveguide and the laser form an external resonant cavity by having a high reflective coating, which reflects the laser light and outputs second

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harmonic light. The narrow band pass filter will provide wavelength selection. See the figures for the different embodiments, which have similar structural arrangement to the claimed embodiments of applicant's invention and the similar output beam.

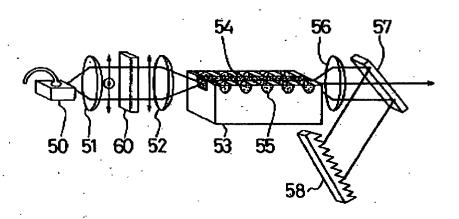
Sonoda does not illustrate providing modulation to the laser beam.

However, providing a wavelength conversion lasing system with an optical system which obtains wavelength modulation is well known in the art, as described in column 7 lines 27-30 and illustrated in prior art figure 13 of Nagai et al.

Regarding claim 26.

Providing modulation to a semiconductor laser by changing the current of the device is notoriously well known in the laser art.

FIG.13 PRIOR ART



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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Armando Rodriguez whose telephone number is (703) 308-6218. The examiner can normally be reached on 10-hour day / M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

Armando Rodriguez

Examiner Art Unit 2828

Paul Ip Supervisor Art Unit 2828

AR/PI

4881.

October 29, 2002